ELSEVIER

Journal of Electroanalytical Chemistry 438 (1997) 261

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Author index

Abe, T. 133
Akutsu, H. 231, 237
Aoki, T. 153
Aramaki, K. 79
Arnold, S. 91

Cai, S.M. 221
Chong, S.-H. 245
Chumanov, G. 179
Chung, T.D. 71
Cotton, T.M. 179
Cusanovich, M.A. 231

Deligeer, 49

Evans, D.H. 173

Feng, Z.Q. 91
Fujishima, A. 213

Gemma, N. 225
Gray, H.B. 43

Hara, M. 199, 207
Hara, Y. 187
Hieda, H. 225
Hikita, T. 105
Hirata, F. 245
Hoffman, B.M. 55
Horizumi, T. 237
Hsu, C.-P. 27
Hu, K. 173

Ichikawa, T. 85
Imai, T. 159
Inobe, T. 237
Inoue, H. 85
Ishino, T. 225
Ito, T. 121
Iyoda, T. 213

Jiang, L. 213

Kakiuchi, T. 91
Kaneko, M. 133
Kang, S.K. 71
Kano, K. 237
Katayama, A. 231
Kazuhito Hashimoto, 213
Kihara, S. 139, 147
Kim, H. 71
Kim, H.-s. 71
Kim, J. 71
Kimura, C. 67
Knoll, W. 91, 199, 207
Kohzuma, T. 49
Kondo, T. 121
Kostić, N.M. 61
Krüger, O. 191

Lewis, N.S. 191
Liu, Z.F. 127, 221
Luo, Y. 127

Maeda, K. 139
Marcus, R.A. 251
Matsue, T. 187
Matsui, M. 147
Matsumoto, K. 85
Mizutani, F. 99
Mu, T. 127

Nakamura, A. 159
Nango, M. 105
Newton, M.D. 3
Niki, K. 91, 231
Nishida, N. 207
Nishihara, H. 79
Nocek, J.M. 55
Nomura, S.-i. 121

Oda, Y. 159
Offenhäusser, A. 199
Ogata, N. 153
Ohde, H. 139
Ohmura, T. 231, 237
Ohtsuka, T. 105
Okuno, M. 79
Okutsu, S. 159
Oyaizu, K. 167

Park, H. 113
Park, J.-S. 113, 231
Pirwitz, G. 199
Pohlmann, L. 37

Royea, W.J. 191

Sagara, M. 231
Sanui, K. 153
Sasabe, H. 207
Sato, Y. 99
Shen, C. 61
Shiku, H. 187
Shim, Y.-B. 113
Shirai, O. 139
Sibbald, M.S. 179
Sugimoto, A. 85
Sumi, H. 11
Suzuki, M. 147
Suzuki, S. 49

Takeoka, Y. 153
Tamada, K. 199
Tanaka, K. 225
Toda, F. 159
Treimer, S.E. 173
Tributsch, H. 37
Tryk, D.A. 213
Tsuchida, E. 167
Tsukahara, K. 67
Tsunooka, M. 85

Uchida, I. 187
Uehara, K. 85
Ueno, A. 159
Umemura, K. 207
Uosaki, K. 121

Wang, R. 213
Wang, Y.Q. 127, 221
Watanabe, M. 153
Winkler, J.R. 43

Yamada, M. 49
Yamamoto, K. 167
Yamauchi, T. 187
Yanagida, M. 121
Yoshida, Y. 139
Yoshimori, A. 21
Yu, H.Z. 127, 221

Zhang, J. 133
Zhao, C.X. 127
Zhao, J.W. 221
Zhou, J.S. 55

ELSEVIER

Journal of Electroanalytical Chemistry 438 (1997) 263–267

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Subject index

Accessory Chlorophyll
Electron transfer via a midway molecule as seen in primary processes in photosynthesis: Superexchange or sequential, or unified? (Sumi) 11
Accumulation condition
Frumkin corrections for heterogeneous rate constants at semiconducting electrodes (Royea et al.) 191
Acid–base equilibrium
Electron-transfer reactions of blue copper protein pseudoazurin from *Achromobacter cycloclastes* with cytochromes (Kohzuma et al.) 49
n-Alkanethiol
Electrochemical responses of cytochrome *c* on a gold electrode modified with mixed monolayers of 3-mercaptopropionic acid and *n*-alkanethiol (Sato, Mizutani) 99
Alkanethiolates
Investigation of the electrode reaction of cytochrome *c* through mixed self-assembled monolayers of alkanethiols on gold(111) surfaces (Arnold et al.) 91
Alkanethiol monolayers
Application of the sequential formula: the electronic coupling and the distance dependence in the electron transfer of ferrocene-terminated alkanethiol monolayers (Hsu) 27
Alkylammonium ions
Interaction between various alkylammonium ions and quinone-derivatized calix[4]arenes in aprotic media (Chung et al.) 71
Amino acid replacement
A comparison of the redox potentials of cytochrome c_3 from *Desulfovibrio vulgaris* Hildenborough with those from *Desulfovibrio vulgaris* Miyazaki F. Effects of amino acid substitutions on the redox potentials (Park et al.) 231
Anion radical of benzoquinone
Redox reaction of benzoquinone on a lipid coated glassy carbon electrode (Park et al.) 113
Asymmetry parameter
An integral equation study for non-linear electrical potential fluctuations of solvent around solute (Chong, Hirata) 245
Atomic force microscopy
Structural investigation of azobenzene-containing self-assembled monolayer films (Wang et al.) 213
Imaging charged functional groups with an atomic force microscope operated in aqueous solutions (Ishino et al.) 225
Azobenzene
Photochromic and electrochemical behavior of a crown-ether-derived azobenzene monolayer assembly (Wang et al.) 127
Structural investigation of azobenzene-containing self-assembled monolayer films (Wang et al.) 213

Benzoquinone
Redox reaction of benzoquinone on a lipid coated glassy carbon electrode (Park et al.) 113
Bidurenol
Electrochemical oxidation of the dianion of bidurenol (Evans et al.) 173
Binding
Quenching as a four-dimensional experiment: application to the multi-domain binding of cytochrome *c* by cytochrome *c* peroxidase (Nocek et al.) 55
Biology
Electron transfer reactions in chemistry. Theory and experiment (Marcus) 251
Biosensors
Photoinduced electron transfer from zinc cytochrome *c* to cationic ruthenium(III) complexes within silica glass prepared by the sol–gel method (Shen, Kostić) 61
Bridge conformation
Medium reorganization and electronic coupling in long-range electron transfer (Newton) 3

Calix[4]arenediquinone
Interaction between various alkylammonium ions and quinone-derivatized calix[4]arenes in aprotic media (Chung et al.) 71
Charge separation
Charge separation in the non-covalent adducts of aromatic amines and the rhenium tricarbonyl complex bearing a cyclodextrin unit on a ligand (Nakamura et al.) 159
Colloid
Reductive properties of iodide-modified silver nanoparticles (Sibbald et al.) 179
Conproportionation constant
Simulation of change in conproportionation constants of the windmill complex $[Cp_3Co_3(S_6C_6)]^{n-}$ in the mixed-valence states ($n = 1,2$) by addition of crown ethers to solutions of alkaline metal ions (Okuno et al.) 79
Contact angle titration
Fabricating an azobenzene self-assembled monolayer via step-by-step surface modification of a cysteamine monolayer on gold (Yu et al.) 221
Crown ether
Simulation of change in conproportionation constants of the windmill complex $[Cp_3Co_3(S_6C_6)]^{n-}$ in the mixed-valence states ($n = 1,2$) by addition of crown ethers to solutions of alkaline metal ions (Okuno et al.) 79
Cyclic voltammetry
Photochromic and electrochemical behavior of a crown-ether-derived azobenzene monolayer assembly (Wang et al.) 127
Cyclodextrin
Charge separation in the non-covalent adducts of aromatic amines and the rhenium tricarbonyl complex bearing a cyclodextrin unit on a ligand (Nakamura et al.) 159
Cysteamine
Fabricating an azobenzene self-assembled monolayer via step-by-step surface modification of a cysteamine monolayer on gold (Yu et al.) 221
Cytochrome *c*
Electron-transfer reactions of blue copper protein pseudoazurin from *Achromobacter cycloclastes* with cytochromes (Kohzuma et al.) 49
Quenching as a four-dimensional experiment: application to the multi-domain binding of cytochrome *c* by cytochrome *c* peroxidase (Nocek et al.) 55

Photoinduced electron-transfer reaction between cytochrome *c* and zinc myoglobin modified with diethylenetriaminepentaacetic acid (Tsukahara, Kimura) 67
Investigation of the electrode reaction of cytochrome *c* through mixed self-assembled monolayers of alkanethiols on gold(111) surfaces (Arnold et al.) 91
Electrochemical responses of cytochrome *c* on a gold electrode modified with mixed monolayers of 3-mercaptopropionic acid and *n*-alkanethiol (Sato, Mizutani) 99
Reductive properties of iodide-modified silver nanoparticles (Sibbald et al.) 179

Cytochrome c_3
A comparison of the redox potentials of cytochrome c_3 from *Desulfovibrio vulgaris* Hildenborough with those from *Desulfovibrio vulgaris* Miyazaki F. Effects of amino acid substitutions on the redox potentials (Park et al.) 231
Unusual behavior of a heme in a tetraheme protein, cytochrome c_3 from *Desulfovibrio vulgaris* Miyazaki F, in the reduction process (Ohmura et al.) 237

Cytochrome *c* peroxidase
Quenching as a four-dimensional experiment: application to the multi-domain binding of cytochrome *c* by cytochrome *c* peroxidase (Nocek et al.) 55

Decay constant
Electron tunneling in structurally engineered proteins (Gray, Winkler) 43

Depletion condition
Frumkin corrections for heterogeneous rate constants at semiconducting electrodes (Royea et al.) 191

2,6-Dichloroindophenol
Reductive properties of iodide-modified silver nanoparticles (Sibbald et al.) 179

Diprotein complex
Photoinduced electron-transfer reaction between cytochrome *c* and zinc myoglobin modified with diethylenetriaminepentaacetic acid (Tsukahara, Kimura) 67

Distance dependence
Application of the sequential formula: the electronic coupling and the distance dependence in the electron transfer of ferrocene-terminated alkanethiol monolayers (Hsu) 27

DTPA-modified myoglobin
Photoinduced electron-transfer reaction between cytochrome *c* and zinc myoglobin modified with diethylenetriaminepentaacetic acid (Tsukahara, Kimura) 67

Electrochemistry
Electrochemical oxidation of the dianion of bidurenol (Evans et al.) 173
Fabricating an azobenzene self-assembled monolayer via step-by-step surface modification of a cysteamine monolayer on gold (Yu et al.) 221
Electron transfer reactions in chemistry. Theory and experiment (Marcus) 251

Electron coupling strength
Application of the sequential formula: the electronic coupling and the distance dependence in the electron transfer of ferrocene-terminated alkanethiol monolayers (Hsu) 27

Electron hopping
Electron transport by methylviologen in a polymer film (Zhang et al.) 133

Electronic coupling integral
Medium reorganization and electronic coupling in long-range electron transfer (Newton) 3

Electron transfer
Electron transfer via a midway molecule as seen in primary processes in photosynthesis: Superexchange or sequential, or unified? (Sumi) 11
Application of the sequential formula: the electronic coupling and the distance dependence in the electron transfer of ferrocene-terminated alkanethiol monolayers (Hsu) 27
Electron-transfer reactions of blue copper protein pseudoazurin from *Achromobacter cycloclastes* with cytochromes (Kohzuma et al.) 49
Photoinduced electron transfer from zinc cytochrome *c* to cationic ruthenium(III) complexes within silica glass prepared by the sol–gel method (Shen, Kostić) 61
Electron transfer in the interface of poly(3-methylthiophene)|5,10-dihydrophenazine derivatives: organic two-layer diodes and their photoelectric conversion (Uehara et al.) 85
Electron transfer catalyzed by phospholipid-linked manganese mesoporphyrin derivatives in lipid bilayers modified electrodes (Ohtsuka et al.) 105
Photochromic and electrochemical behavior of a crown-ether-derived azobenzene monolayer assembly (Wang et al.) 127
Supramolecular interfacial architectures for controlled electron transfer (Knoll et al.) 199
Electron transfer reactions in chemistry. Theory and experiment (Marcus) 251

Electron transfer kinetics
Investigation of the electrode reaction of cytochrome *c* through mixed self-assembled monolayers of alkanethiols on gold(111) surfaces (Arnold et al.) 91

Electron transfer rate
Electron tunneling in structurally engineered proteins (Gray, Winkler) 43

Electron transfer reactions
Non-linear quantum effects on electron transfer reactions (Yoshimori) 21

Electron transport
Voltammetric study on ion transport across a liquid membrane coupled with electron transport (Ohde et al.) 139

Electron tunneling
Electron tunneling in structurally engineered proteins (Gray, Winkler) 43

Electroreflectance spectroscopy
Investigation of the electrode reaction of cytochrome *c* through mixed self-assembled monolayers of alkanethiols on gold(111) surfaces (Arnold et al.) 91

Encapsulation
Interaction between various alkylammonium ions and quinone-derivatized calix[4]arenes in aprotic media (Chung et al.) 71

Enzyme-linked immunosorbent assay
Dual immunoassay of human chorionic gonadotropin and human placental lactogen at a miocrofabricated substrate by scanning electrochemical microscopy (Shiku et al.) 187

Extended reference interaction site method
An integral equation study for non-linear electrical potential fluctuations of solvent around solute (Chong, Hirata) 245

Ferrocene
Effect of supporting electrolyte concentration on the electrochemical reaction of redox-active surfactant micelles in aqueous solutions (Takeoka et al.) 153

Films
Reductive properties of iodide-modified silver nanoparticles (Sibbald et al.) 179

Flavin mononucleotide
Reduction of flavin mononucleotide at the aqueous|organic solution interface in the absence and presence of oxygen (Suzuki et al.) 147

Free energy profile
An integral equation study for non-linear electrical potential fluctuations of solvent around solute (Chong, Hirata) 245

Frumkin corrections
Frumkin corrections for heterogeneous rate constants at semiconducting electrodes (Royea et al.) 191

Functional groups
Imaging charged functional groups with an atomic force microscope operated in aqueous solutions (Ishino et al.) 225

Glassy carbon electrode
Electrochemical oxidation of the dianion of bidurenol (Evans et al.) 173
Gold
Morphology and stability of chemically modified electrode surfaces without –SH and –SS– structures studied by scanning tunneling microscopy (Umemura et al.) 207
Gold electrode
Electrochemical responses of cytochrome *c* on a gold electrode modified with mixed monolayers of 3-mercaptopropionic acid and *n*-alkanethiol (Sato, Mizutani) 99

pH effects
pH-dependent photoinduced electron transfer at the gold electrode modified with a self-assembled monolayer of a porphyrin–mercaptoquinone coupling molecule (Kondo et al.) 121
Heterogeneous rate constants
Frumkin corrections for heterogeneous rate constants at semiconducting electrodes (Royea et al.) 191
Hydrogen bonding
Interaction between various alkylammonium ions and quinone-derivatized calix[4]arenes in aprotic media (Chung et al.) 71

Imaging
Imaging charged functional groups with an atomic force microscope operated in aqueous solutions (Ishino et al.) 225
Inclusion complex
Charge separation in the non-covalent adducts of aromatic amines and the rhenium tricarbonyl complex bearing a cyclodextrin unit on a ligand (Nakamura et al.) 159
Interfacial architecture
Supramolecular interfacial architectures for controlled electron transfer (Knoll et al.) 199
Ion transport
Voltammetric study on ion transport across a liquid membrane coupled with electron transport (Ohde et al.) 139

Langmuir–Blodgett
Photochromic and electrochemical behavior of a crown-ether-derived azobenzene monolayer assembly (Wang et al.) 127
Lipid
Redox reaction of benzoquinone on a lipid coated glassy carbon electrode (Park et al.) 113
Lipid bilayers
Electron transfer catalyzed by phospholipid-linked manganese mesoporphyrin derivatives in lipid bilayers modified electrodes (Ohtsuka et al.) 105
Liquid membrane
Voltammetric study on ion transport across a liquid membrane coupled with electron transport (Ohde et al.) 139
Long-range electron transfer
Medium reorganization and electronic coupling in long-range electron transfer (Newton) 3

Macromolecular mechanisms
Synergetic electron transfer in molecular electronic and photosynthetic mechanisms (Tributsch, Pohlmann) 37
Manganese mesoporphyrin
Electron transfer catalyzed by phospholipid-linked manganese mesoporphyrin derivatives in lipid bilayers modified electrodes (Ohtsuka et al.) 105
Marcus equation
Electron-transfer reactions of blue copper protein pseudoazurin from *Achromobacter cycloclastes* with cytochromes (Kohzuma et al.) 49

3-Mercaptopropionic acid
Electrochemical responses of cytochrome *c* on a gold electrode modified with mixed monolayers of 3-mercaptopropionic acid and *n*-alkanethiol (Sato, Mizutani) 99
Methyl-terminated
Investigation of the electrode reaction of cytochrome *c* through mixed self-assembled monolayers of alkanethiols on gold(111) surfaces (Arnold et al.) 91
Methylviologen
Electron transport by methylviologen in a polymer film (Zhang et al.) 133
Micelle
Effect of supporting electrolyte concentration on the electrochemical reaction of redox-active surfactant micelles in aqueous solutions (Takeoka et al.) 153
Midway molecule
Electron transfer via a midway molecule as seen in primary processes in photosynthesis: Superexchange or sequential, or unified? (Sumi) 11
Mixed monolayers
Electrochemical responses of cytochrome *c* on a gold electrode modified with mixed monolayers of 3-mercaptopropionic acid and *n*-alkanethiol (Sato, Mizutani) 99
Mixed self-assembled monolayers
Investigation of the electrode reaction of cytochrome *c* through mixed self-assembled monolayers of alkanethiols on gold(111) surfaces (Arnold et al.) 91
Mixed-valence state
Simulation of change in conproportionation constants of the windmill complex $[Cp_3Co_3(S_6C_6)]^{n-}$ in the mixed-valence states ($n = 1,2$) by addition of crown ethers to solutions of alkaline metal ions (Okuno et al.) 79
Monolayer
Photochromic and electrochemical behavior of a crown-ether-derived azobenzene monolayer assembly (Wang et al.) 127
Multianalyte sensing
Dual immunoassay of human chorionic gonadotropin and human placental lactogen at a miocrofabricated substrate by scanning electrochemical microscopy (Shiku et al.) 187
Multiheme protein
A comparison of the redox potentials of cytochrome c_3 from *Desulfovibrio vulgaris* Hildenborough with those from *Desulfovibrio vulgaris* Miyazaki F. Effects of amino acid substitutions on the redox potentials (Park et al.) 231
Unusual behavior of a heme in a tetraheme protein, cytochrome c_3 from *Desulfovibrio vulgaris* Miyazaki F, in the reduction process (Ohmura et al.) 237

2D-NMR
Unusual behavior of a heme in a tetraheme protein, cytochrome c_3 from *Desulfovibrio vulgaris* Miyazaki F, in the reduction process (Ohmura et al.) 237
Non-linear potentials
Non-linear quantum effects on electron transfer reactions (Yoshimori) 21

Organic solution
Reduction of flavin mononucleotide at the aqueous|organic solution interface in the absence and presence of oxygen (Suzuki et al.) 147
Oxidation
Electrochemical oxidation of the dianion of bidurenol (Evans et al.) 173
Oxidative polymerization
Oxidative polymerization of pyrrole with a vanadium dinuclear complex as a two-electron redox catalyst (Tsuchida et al.) 167

Oxygen
Reduction of flavin mononucleotide at the aqueous|organic solution interface in the absence and presence of oxygen (Suzuki et al.) 147
Oxygen evolution
Synergetic electron transfer in molecular electronic and photosynthetic mechanisms (Tributsch, Pohlmann) 37

Photochemical activity
Structural investigation of azobenzene-containing self-assembled monolayer films (Wang et al.) 213
Photochromism
Photochromic and electrochemical behavior of a crown-ether-derived azobenzene monolayer assembly (Wang et al.) 127
Photoinduced electron transfer
Photoinduced electron-transfer reaction between cytochrome *c* and zinc myoglobin modified with diethylenetriaminepentaacetic acid (Tsukahara, Kimura) 67
pH-dependent photoinduced electron transfer at the gold electrode modified with a self-assembled monolayer of a porphyrin–mercaptoquinone coupling molecule (Kondo et al.) 121
Photosynthesis
Electron transfer via a midway molecule as seen in primary processes in photosynthesis: Superexchange or sequential, or unified? (Sumi) 11
Electron transfer in the interface of poly(3-methylthiophene)|5,10-dihydrophenazine derivatives: organic two-layer diodes and their photoelectric conversion (Uehara et al.) 85
Photosynthetic structures
Synergetic electron transfer in molecular electronic and photosynthetic mechanisms (Tributsch, Pohlmann) 37
Physical diffusion
Electron transport by methylviologen in a polymer film (Zhang et al.) 133
Polymer–pendant methylviologen
Electron transport by methylviologen in a polymer film (Zhang et al.) 133
Poly(3-methylthiophene)|5,10-dihydrophenazine
Electron transfer in the interface of poly(3-methylthiophene)|5,10-dihydrophenazine derivatives: organic two-layer diodes and their photoelectric conversion (Uehara et al.) 85
Porphyrin–mercaptoquinone
pH-dependent photoinduced electron transfer at the gold electrode modified with a self-assembled monolayer of a porphyrin–mercaptoquinone coupling molecule (Kondo et al.) 121
Potential-step chronoamperospectrometry
Electron transport by methylviologen in a polymer film (Zhang et al.) 133
Proteins
Electron tunneling in structurally engineered proteins (Gray, Winkler) 43
Proton transfer
Interaction between various alkylammonium ions and quinone-derivatized calix[4]arenes in aprotic media (Chung et al.) 71
Pseudoazurin
Electron-transfer reactions of blue copper protein pseudoazurin from *Achromobacter cycloclastes* with cytochromes (Kohzuma et al.) 49

Quantum effects
Non-linear quantum effects on electron transfer reactions (Yoshimori) 21
Quenching
Quenching as a four-dimensional experiment: application to the multi-domain binding of cytochrome *c* by cytochrome *c* peroxidase (Nocek et al.) 55
Photoinduced electron transfer from zinc cytochrome *c* to cationic ruthenium(III) complexes within silica glass prepared by the sol–gel method (Shen, Kostić) 61

Rate constant
Non-linear quantum effects on electron transfer reactions (Yoshimori) 21
Redox behaviour
Unusual behavior of a heme in a tetraheme protein, cytochrome c_3 from *Desulfovibrio vulgaris* Miyazaki F, in the reduction process (Ohmura et al.) 237
Redox-dependent receptor
Interaction between various alkylammonium ions and quinone-derivatized calix[4]arenes in aprotic media (Chung et al.) 71
Redox potential
A comparison of the redox potentials of cytochrome c_3 from *Desulfovibrio vulgaris* Hildenborough with those from *Desulfovibrio vulgaris* Miyazaki F. Effects of amino acid substitutions on the redox potentials (Park et al.) 231
Reduction
Reduction of flavin mononucleotide at the aqueous|organic solution interface in the absence and presence of oxygen (Suzuki et al.) 147
Reductive properties of iodide-modified silver nanoparticles (Sibbald et al.) 179
Reorganization energy
Medium reorganization and electronic coupling in long-range electron transfer (Newton) 3
Rhenium tricarbonyl complex
Charge separation in the non-covalent adducts of aromatic amines and the rhenium tricarbonyl complex bearing a cyclodextrin unit on a ligand (Nakamura et al.) 159

Salting-out effect
Effect of supporting electrolyte concentration on the electrochemical reaction of redox-active surfactant micelles in aqueous solutions (Takeoka et al.) 153
Scanning electrochemical microscopy
Dual immunoassay of human chorionic gonadotropin and human placental lactogen at a miocrofabricated substrate by scanning electrochemical microscopy (Shiku et al.) 187
Scanning tunneling microscope
Morphology and stability of chemically modified electrode surfaces without –SH and –SS– structures studied by scanning tunneling microscopy (Umemura et al.) 207
Self-assembled monolayer
pH-dependent photoinduced electron transfer at the gold electrode modified with a self-assembled monolayer of a porphyrin–mercaptoquinone coupling molecule (Kondo et al.) 121
Morphology and stability of chemically modified electrode surfaces without –SH and –SS– structures studied by scanning tunneling microscopy (Umemura et al.) 207
Self-assembled monolayers
Structural investigation of azobenzene-containing self-assembled monolayer films (Wang et al.) 213
Fabricating an azobenzene self-assembled monolayer via step-by-step surface modification of a cysteamine monolayer on gold (Yu et al.) 221
Self-assembly
Supramolecular interfacial architectures for controlled electron transfer (Knoll et al.) 199
Self-organization mechanism
Synergetic electron transfer in molecular electronic and photosynthetic mechanisms (Tributsch, Pohlmann) 37
Semiconducting electrodes
Frumkin corrections for heterogeneous rate constants at semiconducting electrodes (Royea et al.) 191
Sequential formula
Application of the sequential formula: the electronic coupling and the distance dependence in the electron transfer of ferrocene-terminated alkanethiol monolayers (Hsu) 27

Silica
Photoinduced electron transfer from zinc cytochrome *c* to cationic ruthenium(III) complexes within silica glass prepared by the sol–gel method (Shen, Kostić) 61
Silver
Reductive properties of iodide-modified silver nanoparticles (Sibbald et al.) 179
Sol–gel glass
Photoinduced electron transfer from zinc cytochrome *c* to cationic ruthenium(III) complexes within silica glass prepared by the sol–gel method (Shen, Kostić) 61
Solvent force constant
An integral equation study for non-linear electrical potential fluctuations of solvent around solute (Chong, Hirata) 245
Spectroelectrochemistry
Redox reaction of benzoquinone on a lipid coated glassy carbon electrode (Park et al.) 113
Spin–boson model
Non-linear quantum effects on electron transfer reactions (Yoshimori) 21
Step-by-step surface modification
Fabricating an azobenzene self-assembled monolayer via step-by-step surface modification of a cysteamine monolayer on gold (Yu et al.) 221
Structural characterization
Supramolecular interfacial architectures for controlled electron transfer (Knoll et al.) 199
Structure
Structural investigation of azobenzene-containing self-assembled monolayer films (Wang et al.) 213
Supramolecules
Charge separation in the non-covalent adducts of aromatic amines and the rhenium tricarbonyl complex bearing a cyclodextrin unit on a ligand (Nakamura et al.) 159
Supramolecular interfacial architectures for controlled electron transfer (Knoll et al.) 199
Surface enhanced Raman
Reductive properties of iodide-modified silver nanoparticles (Sibbald et al.) 179
Surface modifier
Morphology and stability of chemically modified electrode surfaces without –SH and –SS– structures studied by scanning tunneling microscopy (Umemura et al.) 207
Surface plasmon resonance
Morphology and stability of chemically modified electrode surfaces without –SH and –SS– structures studied by scanning tunneling microscopy (Umemura et al.) 207
Surfactant
Effect of supporting electrolyte concentration on the electrochemical reaction of redox-active surfactant micelles in aqueous solutions (Takeoka et al.) 153
Synergetic electron transfer
Synergetic electron transfer in molecular electronic and photosynthetic mechanisms (Tributsch, Pohlmann) 37

Thiol
Morphology and stability of chemically modified electrode surfaces without –SH and –SS– structures studied by scanning tunneling microscopy (Umemura et al.) 207
Two-electron transfer
Oxidative polymerization of pyrrole with a vanadium dinuclear complex as a two-electron redox catalyst (Tsuchida et al.) 167
Two-layer diodes
Electron transfer in the interface of poly(3-methylthiophene)|5,10-dihydrophenazine derivatives: organic two-layer diodes and their photoelectric conversion (Uehara et al.) 85
Type 1 copper protein
Electron-transfer reactions of blue copper protein pseudoazurin from *Achromobacter cycloclastes* with cytochromes (Kohzuma et al.) 49

UV–visible spectroscopy
Structural investigation of azobenzene-containing self-assembled monolayer films (Wang et al.) 213

Vanadium dinuclear complex
Oxidative polymerization of pyrrole with a vanadium dinuclear complex as a two-electron redox catalyst (Tsuchida et al.) 167
Voltammetry
Voltammetric study on ion transport across a liquid membrane coupled with electron transport (Ohde et al.) 139

Zinc myoglobin
Photoinduced electron-transfer reaction between cytochrome *c* and zinc myoglobin modified with diethylenetriaminepentaacetic acid (Tsukahara, Kimura) 67